

Appl. No. : 09/631,576
Filed : August 4, 2000

AMENDMENTS TO THE CLAIMS

1-39. (Cancelled)

40. (Previously presented) An attachment for a two-part IOL comprising:
an optic;
a haptic, wherein the haptic is more rigid than the optic;
at least two cleats on the haptic; and
at least two eyelets on the optic allowing each of said cleats to firmly attach to one
of said eyelets on the optic,

wherein said two-part IOL is configured to pass completely through a small
incision without folding the haptic.

41-50. (Cancelled)

51. (Previously presented) The attachment for a two-part IOL of Claim 40,
wherein said haptic further comprises at least one more cleat.

52. (Previously presented) The attachment for a two-part IOL of Claim 51,
wherein said at least two cleats are asymmetrical.

53. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein
said haptic further comprises a hinge.

54. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein
said haptic comprises:
a first rigid element;
a second rigid element formed of a relatively higher modulus material than the
first rigid element, wherein said first and second rigid elements are separated from one another at
a discontinuity; and

a relatively less rigid element formed of relatively lower modulus material
bridging said discontinuity.

55. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein
said bridging allows for the second element to be rotated into the anterior chamber.

56. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein
said haptic is composed of a higher modulus material selected from the group consisting of:

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polyimide, polyetheretherketone, polycarbonate, polymethylpentene, polymethylmethyl methacrylate, polypropylene, polyvinylidene fluoride, polysulfone, and polyether sulfone.

57. (Previously presented) The attachment for a two-part IOL of Claim 56, wherein said polyimide is KAPTON.

58. (Previously presented) The attachment for a two-part IOL of Claim 56, wherein said higher modulus material is polyphenylsulfone (PPSU).

59. (Previously presented) The attachment for a two-part IOL of Claim 56, wherein said higher modulus material has a modulus of about 100,000 to about 500,000 psi/inch.

60. (Currently Amended) The attachment for a two-part IOL of Claim 6059, wherein said higher modulus material has a modulus of about 340,000 psi/inch.

61. (Previously presented) The attachment for a two-part IOL of Claim 56, wherein said higher modulus material is less than or equal to about 0.01 inches thick.

62. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said lower modulus material is an elastomer selected from the group consisting of: silicones, urethane, or hydrophilic acrylics.

63. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said lower modulus material has a modulus of about 100 to about 1000 psi.

64. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said lower modulus material has a hardness of about 15 to 70 on the shore A scale.

65. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said higher modulus material has a hardness of 60 to 95 shore D.

66. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said lower modulus material is selected from the group consisting of: NUSIL MED 6600, 6604, 6607, 6400, and 6820.

67. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein said optic is selected from the group consisting of a refractive lens, an interference lens, a toric lens, a multifocal lens, a positive lens, and a negative lens.

68. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein a lower modulus material partially or completely covers said haptic.

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69. (Currently Amended) The attachment for a two-part IOL of Claim 4053, wherein said hinge comprises a toe region, a foot region, and a lower modulus material extended toward the foot region.

70. (Previously presented) The attachment for a two-part IOL of Claim 54, wherein said lower modulus material is applied by surface treatment and molding.

71. (Previously presented) The attachment for a two-part IOL of Claim 70, wherein said surface treatment is a corona or plasma treatment.

72. (Previously presented) The attachment for a two-part IOL of Claim 70, wherein said molding is selected from the group consisting of dip molding, cast molding, and injection molding.

73. (Cancelled)

74. (Previously presented) The attachment of Claim 40, wherein said two-part IOL is configured to pass completely through a 2.5mm or less opening without folding the haptic.

75. (Previously presented) The attachment for a two-part IOL of Claim 40, wherein the haptic is generally "L" shaped.

76. (Cancelled)

77. (Currently amended) An attachment for a two-part IOL comprising:
an optic;

a haptic, wherein the haptic is more rigid than the optic;

at least two cleats on the optic; and

at least two eyelets on the haptic allowing each of said cleats to firmly attach to one of said eyelets on the haptic,

wherein said two-part IOL is configured to pass completely through a small opening without folding the haptic, and wherein said cleats on the optic extend generally in the plane of the optic.

78. (Currently amended) An attachment for an IOL comprising:
an optic;
a haptic;
at least two cleats on the optic; and

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at least two eyelets on the haptic allowing each of said cleats to firmly attach to one of said eyelets on the haptic,

wherein said optic and said haptic are each configured to pass separately, completely through a small incision without folding the haptic, and wherein said cleats on the optic extend generally in the plane of the optic.

79. (Currently amended) An attachment for an IOL comprising:
an optic;

a haptic;

at least two cleats on the haptic; and

at least two eyelets on the optic allowing each of said cleats to firmly attach to one of said eyelets on the optic,

wherein said optic and said haptic are each configured to pass separately, completely through a small incision without folding the haptic, and wherein said cleats on the haptic extend generally in the plane of the haptic.

80. (New) The attachment of Claim 40, wherein the eyelets are attached firmly, but moveably to allow for natural movement of the eye.

81. (New) The attachment of Claim 40, wherein when the eyelets are attached to the cleats, part of the eyelet passes beneath the plane of the optic.